

SEQUENCE LISTING

<110> SANYO CHEMICAL INDUSTRIES,LTD.
DENKA SEIKEN CO.,LTD.

<120> Method for producing virus

<130> 34878

<150> 2004-122898

<151> 2004-04-19

<160> 54

<170> PatentIn version 3.1

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Pro Asp Ser Gly Arg

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20 25 30

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35 40 45

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala
50 55 60

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala
65 70 75 80

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala
85 90 95

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala
100 105 110

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala
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Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
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Gly Ala Gly Ala Gly Ser
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20 25 30

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
35 40 45

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
50 55 60

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
65 70 75 80

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
85 90 95

Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala
100 105 110

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala
115 120 125

Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
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Gly Ala Gly Ser
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Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala
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20 25 30

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20 25 30

Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr
 35 40 45
 Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala
 50 55 60
 Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala
 65 70 75 80
 Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr
 85 90 95
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 115 120 125
 Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr Gly Ala Gly Ala Gly Tyr
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Gly Ala Gly Val Gly Tyr Gly Ala Gly Val Gly Tyr Gly Ala Gly Val
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Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala
20 25 30

Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr
35 40 45

Gly Ala Gly val Gly Tyr
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Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala
20 25 30

Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr
35 40 45

Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val
50 55 60

Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala
65 70 75 80

Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr
85 90 95

Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val
100 105 110

Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala
115 120 125

Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr
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Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val
145 150 155 160

Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala Gly val Gly Tyr Gly Ala
165 170 175

Gly val Gly Tyr
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Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
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<400> 22

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
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Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
20 25 30

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
35 40 45

Gly Ala Gly Tyr Gly Val
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Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
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Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
20 25 30

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
35 40 45

Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
50 55 60

Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
65 70 75 80

Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
 85 90 95
 Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr
 100 105 110
 Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala
 115 120 125
 Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val Gly Ala Gly Tyr Gly Val
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 Gly Tyr Gly Val
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 20 25 30
 Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala Gly Gly Ala
 35 40 45

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Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly
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Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
20 25 30

Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala Ala Ala
35 40 45

Ala Ala Ala Gly Gly Ala Asp Gly Gly Ala Ala Ala Ala Ala Ala
50 55 60

Ala Ala Ala Ala Ala Gly Gly Ala
65 70

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Gly Val Pro Gly Val Gly Val Pro Gly Val
1 5 10

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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
20 25 30

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
35 40 45

Gly Val
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
20 25 30

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
35 40 45

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
50 55 60

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
65 70 75 80

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
85 90 95

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
100 105 110

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
115 120 125

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
130 135 140

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
145 150 155 160

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Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
180 185 190

Pro Gly Val Gly Val Pro Gly Val
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Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Gly Gly Ala Gly Ala
1 5 10 15

Gly Ser Gly Ala Gly Ala Gly Ser Gly Ala Gly Ala Gly Ser
20 25 30

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20 25 30

Gly Gly Gly Gly Gly Gly Gly Gly
35 40

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20 25 30

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
35 40 45

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
50 55 60

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
65 70 75 80

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
85 90 95

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
100 105 110

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
115 120 125

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
130 135 140

Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
145 150 155 160

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Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
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Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
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Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
20 25 30

Ala Ala Ala Ala Ala Ala Ala Ala
35 40

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Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
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Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
20 25 30

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
35 40 45

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
50 55 60

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
65 70 75 80

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
85 90 95

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
100 105 110

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
115 120 125

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
130 135 140

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
145 150 155 160

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Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
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Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
20 25 30

Ala Gly Gly Ala
35

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Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
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Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
20 25 30

Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala
35 40 45

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
50 55 60

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
65 70 75 80

Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala
85 90 95

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
100 105 110

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
115 120 125

Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala
130 135 140

Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly
145 150 155 160

Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly Ala Gly Gly
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Ala Gly Gly Ala

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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
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Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45

Val Pro
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Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
50 55 60

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
65 70 75 80

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
85 90 95

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
100 105 110

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
115 120 125

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
130 135 140

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
145 150 155 160

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
165 170 175

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
180 185 190

Gly Val Pro Gly Val Gly Val Pro
195 200

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Gly Pro Pro Gly Pro Pro Gly Pro Pro
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Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
20 25 30

Pro Gly Pro Pro

35

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Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
20 25 30

Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
35 40 45

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
50 55 60

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
65 70 75 80

Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
85 90 95

Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
100 105 110

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
115 120 125

Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
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Pro Gly Pro Pro
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Gly Ala Gln Gly Pro Ala Gly Pro Gly
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Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
1 5 10 15

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
20 25 30

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
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Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
1 5 10 15

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
20 25 30

Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln
35 40 45

Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly
50 55 60

Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro
65 70 75 80

Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala
85 90 95

Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly
100 105 110

Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala
115 120 125

Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly
130 135 140

Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro Ala Gly
145 150 155 160

Pro Gly Gly Ala Gln Gly Pro Ala Gly Pro Gly Gly Ala Gln Gly Pro
165 170 175

Ala Gly Pro Gly
180

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Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln
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Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly
1 5 10 15

Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala
20 25 30

Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro
35 40 45

Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln
50 55 60

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Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly
1 5 10 15

Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala
20 25 30

Pro Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro
35 40 45

Gly Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly
50 55 60

Ala Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala
65 70 75 80

Pro Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro
85 90 95

Gly Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly
100 105 110

Ser Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser
115 120 125

Gln Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln
130 135 140

Gly Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly
145 150 155 160

Ala Pro Gly Leu Gln Gly Ala Pro Gly Ala Pro Gly Ser Gln Gly Ala
165 170 175

Pro Gly Leu Gln
180

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Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro
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Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly
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Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala
20 25 30

Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro
35 40 45

Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro
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Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala
20 25 30

Pro Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro
35 40 45

Gly Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly
50 55 60

Thr Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr
65 70 75 80

Pro Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro
85 90 95

Gly Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly
100 105 110

Pro Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro
115 120 125

Gln Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln
130 135 140

Gly Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly
145 150 155 160

Leu Pro Gly Ser Pro Gly Ala Pro Gly Thr Pro Gly Pro Gln Gly Leu
165 170 175

Pro Gly Ser Pro
180